

12/24/98

IN THE CLAIMS

The following is a complete listing of the claims now pending. This listing replaces all earlier versions and listings of the claims.

Claim 1 (currently amended): A print control apparatus for receiving a print job including print data from an external apparatus and ~~forming an image in~~ controlling an image forming section to form an image based on image data, said apparatus comprising:

a (storing means for storing print data;
b (generation means for generating image data by analyzing the print data; [[and]]

c image formation control means for causing the image forming section to form [[an]] the image based on the image data generated by [[the]] said generation means[[,]]; and

d interrupt control means for, in response to an interrupt instruction identifying a print job, interrupting processing of a print job not identified in the interrupt instruction and controlling said generation means to analyze print data of the print job identified in the interrupt instruction.

e wherein [[the]] said storing means stores [[the]] print data of the interrupted print job, including a print data portion that has already been analyzed by said generation means, until formation of an image based on the image data generated from the print data of the identified print job by the image forming section is completed, and

f wherein said generation means analyzes the print data of the interrupted print job stored in said storing means after the analysis of the print data of the identified print job is completed.

is the processing of a print job?

at least a portion is already analyzed

Claim 2 (currently amended): The print control apparatus of Claim 1, further comprising wherein said interrupt control means ~~for controlling such that in response to an interrupt instruction of a print job from the external apparatus it causes the~~ interrupts processing of the print job not identified in the interrupt instruction by causing said generation means to suspend analysis of the print data of ~~[[any]] the print job other than the print job designated to interrupt and analyze the print data of the instructed print job~~ not identified in the interrupt instruction.

Claim 3 (currently amended): The print control apparatus of Claim 1, wherein ~~[[the]]~~ said interrupt control means, ~~in response to an interrupt instruction for a print job from the external apparatus, causes the~~ interrupts processing of the print job not identified in the interrupt instruction by causing said image formation control means to suspend image formation in the image forming section based on the image data of ~~[[any]] the print job other than the print job instructed for interrupt~~ not identified in the interrupt instruction.

Claim 4 (currently amended): The print control apparatus of Claim 1, wherein ~~[[the]]~~ said interrupt control means, ~~in response to an interrupt instruction for a print job from the external apparatus, causes~~ interrupts processing of the print job not identified in the interrupt instruction by causing the image forming section to suspend image formation based on the print data of ~~[[any]] the print job other than the print job instructed for interrupt~~ not identified in the interrupt instruction.

Claim 5 (currently amended): The print control apparatus of Claim 1, wherein ~~[[the]]~~ said interrupt control means, ~~in response to an interrupt instruction for a print job from the external device, deletes all print interrupts processing of the print job not identified in the interrupt instruction by deleting the image data generated by~~ ~~[[the]]~~ said generation means from the print data of the print job not identified in the interrupt instruction.

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Claim 6 (currently amended): The print control apparatus of Claim 1, wherein ~~[[the]]~~ said interrupt control means, ~~in response to an interrupt instruction for a print job from the external device, invalidates all print interrupts processing of the print job not identified in the interrupt instruction by invalidating the image data generated by~~ ~~[[the]]~~ said generation means from the print data of the print job not identified in the interrupt instruction.

Claim 7 (currently amended): The print control apparatus of Claim ~~[[2]]~~ 1, wherein ~~the interrupt control~~ said generation means analyzes all the print data of the interrupted print job stored in ~~[[the]]~~ said storing means, ~~which is the print data of print jobs for which analysis is suspended in response to an interrupt instruction, after analysis of all of the print data of the identified print job instructed for interrupt is completed by the generation means.~~

Claim 8 (currently amended): The print control apparatus of Claim ~~[[3]]~~ 1, wherein ~~the interrupt control means analyzes all of the print data stored by the storing means, which is the print data of print jobs for which image formation is suspended in~~

response to an interrupt instruction, after the said generation means has completed the analysis of all of the print data for the print job instructed to interrupt skips generation of image data, based on a number of pages for which ejection from said print control apparatus is completed.

Claims 9 and 10 (canceled)

Claim 11 (currently amended): The print control apparatus of Claim [[2]] 1, wherein [[an]] the interrupt instruction ~~for a print job~~ is included in the identified print job.

Claim 12 (currently amended): The print control apparatus of Claim 1, further comprising priority control means for controlling priority print processing such that the print data of a print job instructed for priority print is analyzed after the analysis of all the print data of [[another]] a certain print job is completed by [[the]] said generation means in response to a priority instruction ~~for the print job~~ from the external apparatus.

Claim 13 (currently amended): The print control apparatus of Claim 12, wherein the priority instruction ~~for a print job~~ is included in the instructed print job.

Claims 14-20 (canceled)

Claim 21 (currently amended): The print control apparatus of Claim 2, further comprising determination means for determining whether or not an interrupt instruction is permitted, wherein [[the]] said interrupt control means does not ~~control such~~

~~that the print data of a print job is analyzed and the analysis of the print data of any print job other than the print job instructed to interrupt is suspended by the generation means~~
interrupt the processing of the print job not identified in the interrupt instruction if it is determined that the instruction is not permitted by ~~[[the]]~~ said determination means.

Claims 22 and 23 (canceled)

Claim 24 (currently amended): The print control apparatus of Claim 21, further comprising setting means for setting whether or not the interrupt instruction can be used, wherein ~~[[the]]~~ said determination means determines that the interrupt instruction ~~[[are]]~~ is permitted if it is set for use by ~~[[the]]~~ said setting means.

Claim 25 (currently amended): ~~The print control apparatus of Claim 14,~~
further comprising A print control apparatus for receiving a print job including print data from an external apparatus and forming an image in an image forming section based on image data, said apparatus comprising:

storing means for storing print data;

generation means for generating image data by analyzing the print data;

image formation control means for causing the image forming section to form an image based on the image data generated by said generation means;

suspend control means for controlling such that the print data stored by said storing means, which is print data of a print job instructed for suspension, is not

analyzed by said generation means in response to a suspend instruction for the print job from the external apparatus;

determination means for determining whether or not suspended print jobs exist at power-off; and [[a]]

power supply control means for suspending power-off for a designated amount of time if it is determined that a print job exists by [[the]] said determination means,

wherein said storing means stores the print data of the print job instructed for suspension until formation of an image based on image data generated from print data of the print job from the external apparatus by the image forming section is completed.

Claim 26 (currently amended): The print control apparatus of Claim 25, wherein [[the]] said power supply control means does not perform power-off if there is no power-off instruction during the designated amount of time and does perform power-off if there is a power-off instruction during the designated amount of time.

Claim 27 (currently amended): A print control apparatus for receiving a print job including print data from an external apparatus and ~~forming an image in~~ controlling an image forming section to form an image based on image data, said apparatus comprising:

generation means for generating image data by analyzing the print data; and

image formation control means for causing the image forming section to form an image based on the image data generated by ~~[[the]]~~ said generation means,

wherein said apparatus ~~[[can]]~~ may be operated in a first mode for ~~causing the~~ in which, in response to a first mode instruction identifying a print job, received from the external apparatus, to be processed in the first mode, the first mode instruction being included in the identified print job, said generation means is caused to suspend ~~[[the]]~~ analysis of ~~[[the]]~~ print data of ~~any print jobs other than the instructed job a~~ print job not identified in the first mode instruction and analyze ~~[[the]]~~ print data of the ~~instructed print job identified in the first mode instruction, in response to an instruction for~~ a print job from the external apparatus and in a second mode ~~for causing the~~ in which, in response to a second mode instruction identifying a print job, received from the external apparatus, to be processed in the second mode, the second mode instruction being included in the identified print job, said generation means is caused to analyze ~~[[the]]~~ print data of the ~~instructed~~ print job identified in the second mode instruction after completing analysis of ~~all the~~ print data of a first print job not identified in the second mode instruction and before starting analysis of print data of a second print job not identified in the second mode instruction, the first and second print jobs being received before the identified print job.

Claim 28 (currently amended): The print control apparatus of Claim 27, wherein, in the first mode, ~~said~~ it causes the image formation control means is caused to suspend image formation in the image forming section based on the image data relating to ~~[[any]]~~ the print job ~~other than the print job instructed to interrupt in response to an~~

~~instruction for a print job from the external apparatus not identified in the first mode~~
instruction.

Claim 29 (currently amended): The print control apparatus of Claim 27,
wherein, in the first mode, ~~it causes the suspension of image formation~~ is suspended in the
image forming section based on the image data relating to ~~[[any]] the print job other than~~
~~the print job instructed to interrupt in response to an instruction for a print job from the~~
~~external apparatus not identified in the first mode instruction.~~

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Claim 30 (currently amended): The print control apparatus of Claim 27,
wherein, in the first mode, ~~it deletes all~~ image data generated by ~~[[the]]~~ said generation
means is deleted in response to ~~[[an]] the first mode instruction for a print job from the~~
~~external apparatus.~~

Claim 31 (currently amended): The print control apparatus of Claim 27,
wherein, in the first mode, ~~it invalidates all~~ image data generated by ~~[[the]]~~ said generation
means is invalidated in response to ~~[[an]] the first mode instruction for a print job from the~~
~~external apparatus.~~

Claims 32-56 (canceled)

Claim 57 (currently amended): A print control method for controlling a
print control apparatus for receiving print jobs including print data from an external

apparatus and ~~causing image formation in~~ controlling an image forming section to form an image based on image data, said method comprising:

a storing step of ~~[[for]]~~ storing print data ~~with a~~ in storing means;

a generation step of ~~[[for]]~~ generating image data by analyzing the print data; ~~[[and]]~~

an image formation control step of ~~[[for]]~~ causing ~~image formation~~ in the image forming section to form the image based on the image data generated ~~by the~~ in said generation step~~[[,]]~~; and

an interrupt control step of, in response to an interrupt instruction identifying a print job, interrupting processing of a print job not identified in the interrupt instruction and controlling said generation step to analyze print data of the print job identified in the interrupt instruction,

wherein ~~[[the]]~~ said storing step stores print data of ~~[[a]]~~ the interrupted print job in the storing means, including a print data portion that has already been analyzed in said generation step, ~~by the storing means from the time the print data of a print job is generated until~~ [[the]] formation of an image based on ~~all of~~ the image data generated from the print data of the identified print job by the image forming section is completed, and ~~by the image forming section~~

wherein said generation step analyzes print data of the interrupted print job stored in said storing step after analysis of the print data of the identified print job is completed.

Claim 58 (currently amended): The print control method of Claim 57, ~~further comprising an~~ wherein said interrupt control step ~~for controlling such that in~~

response to an interrupt instruction of a print job from the external apparatus it causes the interrupts processing of the print job not identified in the interrupt instruction by causing said generation step to suspend analysis of [[the]] print data of [[any]] the print job other than the print job designated to interrupt and analyze the print data of the instructed print job not identified in the interrupt instruction.

A, Claim 59 (currently amended): The print control method of Claim 57, wherein [[the]] said interrupt control step, ~~in response to an interrupt instruction for a print job from the external apparatus, causes the~~ interrupts processing of the print job not identified in the interrupt instruction by causing said image formation control step to suspend image formation in the image forming section based on [[the]] image data of [[any]] the print job ~~other than the print job instructed for interrupt~~ not identified in the interrupt instruction.

Claim 60 (currently amended): The print control method of Claim 57, wherein [[the]] said interrupt control step, ~~in response to an interrupt instruction for a print job from the external apparatus, causes the~~ interrupts processing of the print job not identified in the interrupt instruction by causing the image forming section to suspend image formation based on [[the]] print data of [[any]] the print job ~~other than the print job instructed for interrupt~~ not identified in the interrupt instruction.

Claim 61 (currently amended): The print control method of Claim 57, wherein [[the]] said interrupt control step, ~~in response to an interrupt instruction for a print job from the external device, deletes all print~~ interrupts processing of the print job not

identified in the interrupt instruction by deleting image data generated by the in said generation step from print data of the print job not identified in the interrupt instruction.

Claim 62 (currently amended): The print control method of Claim 57, wherein ~~[[the]]~~ said interrupt control step, ~~in response to an interrupt instruction for a print job from the external device, invalidates all print interrupts processing of the print job not~~ identified in the interrupt instruction by invalidating image data generated by the in said generation step from print data of the print job not identified in the interrupt instruction.

Claim 63 (currently amended): The print control method of Claim ~~[[58]]~~ 57, wherein ~~the interrupt control~~ said generation step analyzes all the print data of the interrupted print job stored in the storing means, ~~which is the print data of print jobs for which analysis is suspended in response to an interrupt instruction, after analysis of all of the print data of the~~ identified print job ~~instructed for interrupt~~ is completed by the generation step.

Claim 64 (currently amended): The print control method of Claim ~~[[59]]~~ 57, wherein ~~the interrupt control step analyzes all of the print data stored by the storing means, which is the print data of print jobs for which image formation is suspended in response to an interrupt instruction, after the~~ said generation step has completed the analysis of all of the print data for the print job instructed to interrupt skips generation of image data, based on a number of pages for which ejection from the print control apparatus is completed.

Claims 65 and 66 (canceled)

Claim 67 (currently amended): The print control method of Claim [[58]]
57, wherein [[an]] the interrupt instruction ~~for a print job~~ is included in the identified print
job.

Claim 68 (currently amended): The print control method of Claim 57,
further comprising a priority control step of [[for]] controlling priority print processing
such that the print data of a print job instructed for priority print is analyzed after [[the]]
analysis of all the print data of [[another]] a certain print job is completed ~~by the~~ in said
generation step in response to a priority instruction ~~for the print job~~ from the external
apparatus.

Claim 69 (currently amended): The print control method of Claim 68,
wherein the priority instruction ~~for a print job~~ is included in the instructed print job.

Claims 70-76 (canceled)

Claim 77 (currently amended): The print control method of Claim 58,
further comprising a determination step of [[for]] determining whether or not an interrupt
instruction is permitted, wherein [[the]] said interrupt control step does not ~~control such~~
~~that the print data of a print job is analyzed and the analysis of the print data of any print~~
~~job other than the print job instructed to interrupt is suspended by the generation step~~
interrupt processing of the print job not identified in the interrupt instruction if it is

determined in said determination step that the instruction is not permitted ~~by the~~
~~determination means.~~

Claims 78 and 79 (canceled)

Claim 80 (currently amended): The print control method of Claim 77,
further comprising a setting step of [[for]] setting whether or not ~~the~~ interrupt instruction
can be used, wherein [[the]] ~~said~~ determination step determines that ~~the~~ interrupt
~~instructions are~~ ~~instruction is~~ permitted if it is set for use by [[the]] ~~said~~ setting step.

Claim 81 (currently amended): ~~The print control method of Claim 70,~~
~~further comprising~~ A print control method for a print control apparatus receiving a print job
including print data from an external apparatus and causing image formation in an image
forming section of the print control apparatus based on image data, said method
comprising:

a storing step of storing print data in storing means;

a generation step of generating image data by analyzing the print
data;

an image formation control step of causing image formation in the
image forming section based on the image data generated in said generation step;

a suspend control step of controlling such that the print data stored
in the storing means, which is print data of a print job instructed for suspension, is not
analyzed in said generation step in response to a suspend instruction for the print job from
the external apparatus;

a determination step of ~~[[for]]~~ determining whether or not suspended print jobs exist at power-off; and

a power supply control step of ~~[[for]]~~ suspending power-off for a designated amount of time if it is determined in said determination step that a print job exists, ~~by the determination step~~

wherein said storing step stores the print data of the print job instructed for suspension until formation of an image based on image data generated from print data of the print job from the external apparatus by the image forming section is completed.

Claim 82 (currently amended): The print control method of Claim 81, wherein ~~[[the]]~~ said power supply control step does not perform power-off if there is no power-off instruction during the designated amount of time and does perform power-off if there is a power-off instruction during the designated amount of time.

Claim 83 (currently amended): A print control method for controlling a print control apparatus for receiving a print job including print data from an external apparatus and ~~forming an image in~~ controlling an image forming section to form an image based on image data, said method comprising:

a generation step of ~~[[for]]~~ generating image data by analyzing the print data; and

an image formation control step of ~~[[for]]~~ causing the image forming section to form an image based on the image data generated ~~by the~~ in said generation step,

wherein said method ~~[[can]]~~ may be executed in a first mode ~~for causing the~~ in which, in response to a first mode instruction identifying a print job,
received from the external apparatus, to be processed in the first mode, the first mode
instruction being included in the identified print job, said generation step is caused to
suspend ~~[[the]]~~ analysis of ~~[[the]]~~ print data of ~~any print jobs other than the instructed job a~~
print job not identified in the first mode instruction and analyze ~~[[the]]~~ print data of the
instructed print job identified in the first mode instruction, ~~in response to an instruction for~~
~~a print job from the external apparatus~~ and in a second mode ~~for causing the~~ in which, in
response to a second mode instruction identifying a print job, received from the external
apparatus, to be processed in the second mode, the second mode instruction being included
in the identified print job, said generation step is caused to analyze ~~[[the]]~~ print data of the
instructed print job identified in the second mode instruction after completing analysis of
~~all the~~ print data of a first print job not identified in the second mode instruction and before
starting analysis of print data of a second print job not identified in the second mode
instruction, the first and second print jobs being received before the identified print job.

Claim 84 (currently amended): The print control method of Claim 83,
wherein, in the first mode, said ~~it causes the~~ image formation control step is caused to
suspend image formation in the image forming section based on the image data relating to
~~[[any]]~~ the print job ~~other than the print job instructed to interrupt in response to an~~
~~instruction for a print job from the external apparatus~~ not identified in the first mode
instruction.

Claim 85 (currently amended): The print control method of Claim 83, wherein, in the first mode, ~~it causes the suspension of image formation~~ is suspended in the image forming section based on the image data relating to ~~[[any]] the print job other than the print job instructed to interrupt in response to an instruction for a print job from the external apparatus not identified in the first mode instruction.~~

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Claim 86 (currently amended): The print control method of Claim 83, wherein, in the first mode, ~~it deletes all image data generated by the~~ in said generation step is deleted in response to ~~[[an]] the first mode instruction for a print job from the external apparatus.~~

Claim 87 (currently amended): The print control method of Claim 83, wherein, in the first mode, ~~it invalidates all image data generated by the~~ in said generation step is invalidated in response to ~~[[an]] the first mode instruction for a print job from the external apparatus.~~

Claims 88-112 (canceled)

Claim 113 (currently amended): A computer-readable memory medium which stores a print control program executing a print control method for controlling a print control apparatus for receiving a print job including print data from an external device apparatus and ~~causing image formation in~~ controlling an image forming section to form an image based on image data, ~~[[the]]~~ said program comprising:

code for a storing step of ~~[[for]]~~ storing print data in storing means;

code for a generation step of ~~[[for]]~~ generating image data by analyzing print data; ~~[[and]]~~

code for an image formation control step of ~~[[for]]~~ causing image formation in ~~an~~ the image forming section to form the image based on image data generated by ~~the~~ said generation ~~[[step]]~~ code; and

code for an interrupt control step of, in response to an interrupt instruction identifying a print job, interrupting processing of a print job not identified in the interrupt instruction and controlling said generation code to analyze print data of the print job identified in the interrupt instruction.

wherein ~~[[the]]~~ said storing ~~[[step]]~~ code stores print data of the interrupted print ~~[[jobs]]~~ job in the storing means, including a print data portion that has already been analyzed by said generation code, until ~~[[the]]~~ formation of image-forming section has finished forming an image based on all of the image data generated from the print data of the identified print job by the image forming section is completed, and

wherein said generation code analyzes the print data of the interrupted print job stored by said storing code after analysis of print data of the identified print job is completed.

Claim 114 (currently amended): The computer-readable memory medium of Claim 113, wherein ~~the program further comprises an~~ said interrupt control step for controlling such that in response to an interrupt instruction of a print job from the external apparatus it causes ~~the~~ code interrupts processing of the print job not identified in the interrupt instruction by causing said generation ~~[[step]]~~ code to suspend analysis of ~~[[the]]~~

print data of [[any]] the print job other than the print job designated to interrupt and analyze the print data of the instructed print job not identified in the interrupt instruction.

Claim 115 (currently amended): The computer-readable memory medium of Claim 113, wherein [[the]] said interrupt control step, in response to an interrupt instruction for a print job from the external apparatus, causes the code interrupts processing of the print job not identified in the interrupt instruction by causing said image formation control [[step]] code to suspend image formation in the image forming section based on [[the]] image data of [[any]] the print job other than the print job instructed for interrupt not identified in the interrupt instruction.

Claim 116 (currently amended): The computer-readable memory medium of Claim 113, wherein [[the]] said interrupt control step, in response to an interrupt instruction for a print job from the external apparatus, causes the code interrupts processing of the print job not identified in the interrupt instruction by causing the image forming section to suspend image formation based on [[the]] print data of [[any]] the print job other than the print job instructed for interrupt not identified in the interrupt instruction.

Claim 117 (currently amended): The computer-readable memory medium of Claim 113, wherein [[the]] said interrupt control step, in response to an interrupt instruction for a print job from the external device, deletes all print code interrupts processing of the print job not identified in the interrupt instruction by deleting image data generated by [[the]] said generation [[step]] code from print data of the print job not identified in the interrupt instruction.

Claim 118 (currently amended): The computer-readable memory medium of Claim 113, wherein ~~[[the]]~~ said interrupt control ~~step, in response to an interrupt instruction for a print job from the external device, invalidates all print code interrupts processing of the print job not identified in the interrupt instruction by invalidating image data generated by~~ ~~[[the]]~~ said generation ~~[[step]]~~ code from print data of the print job not identified in the interrupt instruction.

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Claim 119 (currently amended): The computer-readable memory medium of Claim ~~[[114]]~~ 113, wherein ~~the interrupt control step~~ said generation code analyzes all ~~the print data of the interrupted print job stored in the storing means, which is the print data of print jobs for which analysis is suspended in response to an interrupt instruction, after analysis of all of the print data of the~~ identified print job ~~instructed for interrupt is completed by the generation step.~~

Claim 120 (currently amended): The computer-readable memory medium of Claim ~~[[115]]~~ 113, wherein ~~the interrupt control step analyzes all of the print data stored by the storing means, which is the print data of print jobs for which image formation is suspended in response to an interrupt instruction, after the~~ said generation step has ~~completed the analysis of all of the print data for the print job instructed to interrupt~~ code skips generation of image data, based on a number of pages for which ejection from the print control apparatus is completed.

Claims 121-122 (canceled)

Claim 123 (currently amended): The computer-readable memory medium of Claim [[114]] 113, wherein ~~[[an]] the~~ interrupt instruction ~~for a print job~~ is included in the identified print job.

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Claim 124 (currently amended): The computer-readable memory medium of Claim 113, wherein the program further comprises code for a priority control step of ~~[[for]]~~ controlling priority print processing such that the print control program causes the print data of a print job instructed for priority print to be analyzed after ~~[[the]]~~ analysis of all the print data of ~~[[another]]~~ a certain print job is completed by ~~[[the]]~~ said generation code ~~[[step]]~~ in response to a priority instruction ~~for the print job~~ from the external apparatus.

Claim 125 (currently amended): The computer-readable memory medium of Claim 124, wherein the priority instruction ~~for a print job~~ is included in the instructed print job.

Claims 126-132 (canceled)

Claim 133 (currently amended): The computer-readable memory medium of Claim 114, wherein the program further comprises code for a determination step of ~~[[for]]~~ determining whether or not an interrupt instruction is permitted, wherein ~~[[the]]~~ said interrupt control ~~[[step]]~~ code does not ~~control such that the print data of a print job is analyzed and the analysis of the print data of any print job other than the print job instructed to interrupt is suspended by the generation step~~ interrupt processing of the print

job not identified in the interrupt instruction if it is determined by said determination code that the instruction is not permitted ~~by the determination step~~.

Claims 134 and 135 (canceled)

A, Claim 136 (currently amended): The computer-readable memory medium of Claim 133, wherein the program further comprises code for a setting step of [[for]] setting whether or not the interrupt instructions instruction can be used, wherein [[the]] said determination [[step]] code determines that the interrupt instruction [[are]] is permitted if it is set for use by [[the]] said setting [[step]] code.

Claim 137 (currently amended): ~~The computer-readable memory medium of Claim 126, wherein the program further comprises~~ A computer-readable memory medium which stores a print control program executing a print control method for controlling a print control apparatus for receiving a print job including print data from an external apparatus and controlling an image forming section to form an image based on image data, said program comprising:

code for a storing step of storing print data in storing means;

code for a generation step of generating image data by analyzing the print data;

code for an image formation control step of causing image formation in the image forming section based on the image data generated by said generation code;

code for a suspend control step of controlling such that the print data stored in the storing means, which is print data of a print job instructed for suspension, is

not analyzed by said generation code in response to a suspend instruction for the print job from the external apparatus;

code for a determination step of [[for]] determining whether or not suspended print jobs exist at power-off; and

code for a power supply control step of [[for]] suspending power-off for a designated amount of time if it is determined by said determination code that a print job exists, ~~by the determination step~~

wherein said storing code stores the print data of the print job instructed for suspension in the storing means until formation of an image based on image data generated from the print data of the print job from the external apparatus by the image forming section is completed.

Claim 138 (currently amended): The computer-readable memory medium of Claim 137, wherein [[the]] said power supply control [[step]] code does not perform power-off if there is no power-off instruction during the designated amount of time and does perform power-off if there is a power-off instruction during the designated amount of time.

Claim 139 (currently amended): A computer-readable memory medium which stores a print control program executing a print control method for controlling a print control apparatus for receiving a print job including print data from an external [[device]] apparatus and ~~causing image formation in~~ controlling an image forming section to form an image based on image data, [[the]] said program comprising:

code for a generation step of [[for]] generating image data by analyzing the print data; and

code for an image formation control step of [[for]] causing the image forming section to form an image based on the image data generated by [[the]] said generation [[step]] code,

wherein the program [[can]] may be executed in:

A, a first mode ~~for causing the~~ in which, in response to a first mode instruction identifying a print job, received from the external apparatus, to be processed in the first mode, the first mode instruction being included in the identified print job, said generation [[step]] code is caused to suspend [[the]] analysis of [[the]] print data of ~~any print jobs other than the instructed job~~ a print job not identified in the first mode instruction and analyze [[the]] print data of the ~~instructed~~ print job identified in the first mode instruction, in response to an instruction for a print job from the external apparatus; and

a second mode ~~for causing the~~ in which, in response to a second mode instruction identifying a print job, received from the external apparatus, to be processed in the second mode, the second mode instruction being included in the identified print job, said generation [[step]] code is caused to analyze [[the]] print data of the ~~instructed~~ print job identified in the second mode instruction after completing analysis of ~~all the~~ print data of a first print job not identified in the second mode instruction and before starting analysis of print data of a second print job not identified in the second mode instruction, the first and second print jobs being received before the identified print job.

Claim 140 (currently amended): The computer-readable memory medium of Claim 139, wherein, in the first mode, said ~~it causes the~~ image formation control [[step]]

code is caused to suspend image formation in the image forming section based on the image data relating to ~~[[any]]~~ the print job ~~other than the print job instructed to interrupt in response to an instruction for a print job from the external apparatus~~ not identified in the first mode instruction.

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Claim 141 (currently amended): The computer-readable memory medium of Claim 139, wherein, in the first mode, ~~it causes the suspension of image formation~~ is suspended in the image forming section based on the image data relating to ~~[[any]]~~ the print job ~~other than the print job instructed to interrupt in response to an instruction for a print job from the external apparatus~~ not identified in the first mode instruction.

Claim 142 (currently amended): The computer-readable memory medium of Claim 139, wherein, in the first mode, ~~it deletes all image data generated by the said~~ generation ~~[[step]]~~ code is deleted in response to ~~[[an]]~~ the first mode instruction ~~for a print job from the external apparatus~~.

Claim 143 (currently amended): The computer-readable memory medium of Claim 139, wherein, in the first mode, ~~it invalidates all image data generated by the said~~ generation ~~[[step]]~~ code is invalidated in response to ~~[[an]]~~ the first mode instruction ~~for a print job from the external apparatus~~.

Claims 144-168 (canceled)

Claim 169 (currently amended): A print control program executing a print control method for controlling a print control apparatus for receiving print jobs including print data from an external apparatus and ~~causing image formation in an image forming section of the print apparatus to form an image~~ based on image data, said program comprising:

code for a storing step of [[for]] storing print data with a in storing means;

code for a generation step of [[for]] generating image data by analyzing print data; [[and]]

code for an image formation control step of [[for]] causing image formation in the image forming section to form the image based on the image data generated by [[the]] said generation [[step]] code;

code for an interrupt step of, in response to an interrupt instruction identifying a print job, interrupting processing of a print job not identified in the interrupt instruction and controlling said generation code to analyze print data of the print job identified in the interrupt instruction,

wherein [[the]] said storing [[step]] code stores print data of [[a]] the interrupted print job [[by]] in the storing means, including a print data portion that has already been analyzed by said generation code, until [[the]] formation of an image based on all of the image data generated from the print data of the identified print job is completed by the image forming section is completed, and

wherein said generation code analyzes the print data of the interrupted print job stored by said storing code after analysis of the print data of the identified print job is completed.

Claim 170 (currently amended): The print control program of Claim 169, ~~further comprising an~~ wherein said interrupt control ~~step for controlling such that in~~ response to an interrupt instruction of a print job from the external apparatus it causes the code interrupts processing of the print job not identified in the interrupt instruction by causing said generation ~~[[step]]~~ code to suspend analysis of ~~[[the]]~~ print data of ~~[[any]]~~ the print job ~~other than the print job designated to interrupt and analyze the print data of the instructed print job~~ not identified in the interrupt instruction.

Claim 171 (currently amended): The print control program of Claim 169, wherein ~~[[the]]~~ said interrupt control ~~step, in response to an interrupt instruction for a print job from the external apparatus, causes the~~ code interrupts processing of the print job not identified in the interrupt instruction by causing said image formation control ~~[[step]]~~ code to suspend image formation in the image forming section based on ~~[[the]]~~ image data of ~~[[any]]~~ the print job ~~other than the print job instructed for interrupt~~ not identified in the interrupt instruction.

Claim 172 (currently amended): The print control program of Claim 169, wherein ~~[[the]]~~ said interrupt control ~~step, in response to an interrupt instruction for a print job from the external apparatus, causes the~~ code interrupts processing of the print job not identified in the interrupt instruction by causing the image forming section to suspend image formation based on ~~[[the]]~~ print data of ~~[[any]]~~ the print job ~~other than the print job instructed for interrupt~~ not identified in the interrupt instruction.

Claim 173 (currently amended): The print control program of Claim 169, wherein ~~[[the]]~~ said interrupt control ~~step, in response to an interrupt instruction for a print job from the external device, deletes all print code interrupts processing of the print job not identified in the interrupt instruction by deleting image data generated by~~ ~~[[the]]~~ said generation ~~[[step]]~~ code from print data of the print job not identified in the interrupt instruction.

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Claim 174 (currently amended): The print control program of Claim 169, wherein ~~[[the]]~~ said interrupt control ~~step, in response to an interrupt instruction for a print job from the external device, invalidates all print code interrupts processing of the print job not identified in the interrupt instruction by invalidating image data generated by~~ ~~[[the]]~~ said generation ~~[[step]]~~ code from print data of the print job not identified in the interrupt instruction.

Claim 175 (currently amended): The print control program of Claim ~~[[170]]~~ 169, wherein ~~the interrupt control step~~ said generation code analyzes all the print data of the interrupted print job stored in the storing means, ~~which is the print data of print jobs for which analysis is suspended in response to an interrupt instruction, after analysis of all of the print data of the~~ identified print job ~~instructed for interrupt is completed by the~~ generation ~~step.~~

Claim 176 (currently amended): The print control program of Claim ~~[[171]]~~ 169, wherein ~~the interrupt control step analyzes all of the print data stored by the storing means, which is the print data of print jobs for which image formation is suspended in~~

response to an interrupt instruction, after the said generation step has completed the analysis of all of the print data for the print job instructed to interrupt code skips generation of image data, based on a number of pages for which ejection from the print control apparatus is completed.

Claims 177 and 178 (canceled)

Claim 179 (currently amended): The print control program of Claim [[170]] 169, wherein [[an]] the interrupt instruction ~~for a print job~~ is included in the print job.

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Claim 180 (currently amended): The print control program of Claim 169, further comprising code for a priority control step of [[for]] controlling priority print processing such that the print data of a print job instructed for priority print is analyzed after [[the]] analysis of all the print data of [[another]] a certain print job is completed by [[the]] said generation [[step]] code in response to a priority instruction ~~for the print job~~ from the external apparatus.

Claim 181 (currently amended): The print control program of Claim 180, wherein the priority instruction ~~for a print job~~ is included in the print job.

Claims 182-188 (canceled)

Claim 189 (currently amended): The print control program of Claim 170, further comprising code for a determination step of [[for]] determining whether or not an

interrupt instruction is permitted, wherein [[the]] said interrupt control [[step]] code does not ~~control such that the print data of a print job is analyzed and the analysis of the print data of any print job other than the print job instructed to interrupt is suspended by the generation step interrupt processing of the print job not identified in the interrupt instruction~~ if it is determined by said determination code that the instruction is not permitted ~~by the determination means~~.

Claims 190 and 191 (canceled)

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Claim 192 (currently amended): The print control program of Claim 189, further comprising code for a setting step of [[for]] setting whether or not the interrupt instruction can be used, wherein [[the]] said determination [[step]] code determines that the interrupt instructions are instruction is permitted if it is set for use by [[the]] said setting [[step]] code.

Claim 193 (currently amended): ~~The print control program of Claim 182, further comprising~~ A print control program executing a print control method for controlling a print control apparatus for receiving a print job including print data from an external apparatus and an image forming section to form an image based on image data, said program comprising:

code for a storing step of storing print data in storing means;

code for a generation step of generating image data by analyzing print data;

code for an image formation control step of causing the image forming section to form the image based on the image data generated by said generation code;

code for a suspend control step of controlling such that the print data stored in the storing means, which is print data of a print job instructed for suspension, is not analyzed by said generation code in response to a suspend instruction for the print job from the external apparatus;

code for a determination step of [[for]] determining whether or not suspended print jobs exist at power-off; and

code for a power supply control step of [[for]] suspending power-off for a designated amount of time if it is determined by said determination code that a print job exists, by the determination step.

wherein said storing code stores print data of the print job instructed for suspension in the storing means until the formation of an image based on image data generated from the print data of the print job from the external apparatus by the image forming section is completed.

Claim 194 (currently amended): The print control program of Claim 193, wherein [[the]] said power supply control [[step]] code does not perform power-off if there is no power-off instruction during the designated amount of time and does perform power-off if there is a power-off instruction during the designated amount of time.

Claim 195 (currently amended): A print control program executing a print control method for controlling a print control apparatus for receiving a print job including

print data from an external apparatus and forming an image in an image forming section based on image data, said program comprising:

code for a generation step of [[for]] generating image data by analyzing the print data; and

code for an image formation control step of [[for]] causing the image forming section to form an image based on the image data generated by [[the]] said generation [[step]] code,

wherein said program [[can]] may be executed in a first mode for causing the in which, in response to a first mode instruction identifying a print job, received from the external apparatus, to be processed in the first mode, the first mode instruction being included in the identified print job, said generation [[step]] code is caused to suspend [[the]] analysis of [[the]] print data of any print jobs other than the instructed job of a print job not identified in the first mode instruction and analyze [[the]] print data of the instructed print job identified in the first mode instruction, in response to an instruction for a print job from the external apparatus and in a second mode for causing the in which, in response to a second mode instruction identifying a print job, received from the external apparatus, to be processed in the second mode, the second mode instruction being included in the identified print job, said generation [[step]] code is caused to analyze [[the]] print data of the instructed print job identified in the second mode instruction after completing analysis of all the print data of a first print job not identified in the second mode instruction and before starting analysis of print data of a second print job not identified in the second mode instruction, the first and second print jobs being received before the identified print job.

Claim 196 (currently amended): The print control program of Claim 195, wherein, in the first mode, said it causes the image formation control [[step]] code is caused to suspend image formation in the image forming section based on the image data relating to [[any]] the print job other than the print job instructed to interrupt in response to an instruction for a print job from the external apparatus not identified in the first mode instruction.

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Claim 197 (currently amended): The print control program of Claim 195, wherein, in the first mode, it causes the suspension of image formation is suspended in the image forming section based on the image data relating to [[any]] the print job other than the print job instructed to interrupt in response to an instruction for a print job from the external apparatus not identified in the first mode instruction.

Claim 198 (currently amended): The print control program of Claim 195, wherein, in the first mode, it deletes all image data generated by [[the]] said generation [[step]] code is deleted in response to [[an]] the first mode instruction for a print job from the external apparatus.

Claim 199 (currently amended): The print control program of Claim 195, wherein, in the first mode, it invalidates all image data generated by [[the]] said generation [[step]] code is invalidated in response to [[an]] the first mode instruction for a print job from the external apparatus.

Claims 200-224 (canceled)